



# Developing Customized Reports

RCRAInfo National Implementer Training

July - August, 2000

# Overview

- Introducing Oracle Reports 6.0.
- A brief tour of Oracle Reports.
  - Demo: Building a simple report.
- The Report Editor.
  - Demo: Using the Report Editor.
- The Object Navigator.
- Wrap up.

# Introducing Oracle Reports 6.0

- Chosen for National and Shared report development because it is the product supported by National Technology Services Division at EPA.
- Allows for basic report development by moderately technical users.
- Contains a wide variety of tools for advanced reporting requirements.

# A brief tour of Oracle Reports

- Uses “point and click” and “drag and drop” technology to develop reports, including building the query, grouping the data and formatting the report.
- Utilizes wizards to perform some functions, including building the initial report.
- Allows for the use of PL/SQL functions and procedures in adding functionality to a report.

# Query Builder

- Builds a SQL query based on the columns and tables selected by a user.
- Does not require users to know complicated data relationships.
- Can restrict data retrieved based on conditional statements added to the query - requires minimal SQL knowledge.
- Allows users to view query results based on criteria selected.
- Is a component of both Report Wizard and Data Model.

# Query Builder

Query Builder: Query

STATE='AL'

HBASIC

<input checked="" type="checkbox"/>	HANDLER ID	A
<input checked="" type="checkbox"/>	HANDLER NAME	A
<input type="checkbox"/>	FACILITY IDENTIFIER	A
<input checked="" type="checkbox"/>	REGION	A
<input checked="" type="checkbox"/>	STATE	A
<input type="checkbox"/>	USERID	A
<input type="checkbox"/>	LAST CHANGE	DD
<input type="checkbox"/>	NOTES	A
<input type="checkbox"/>	EXTRACT FLAG	A

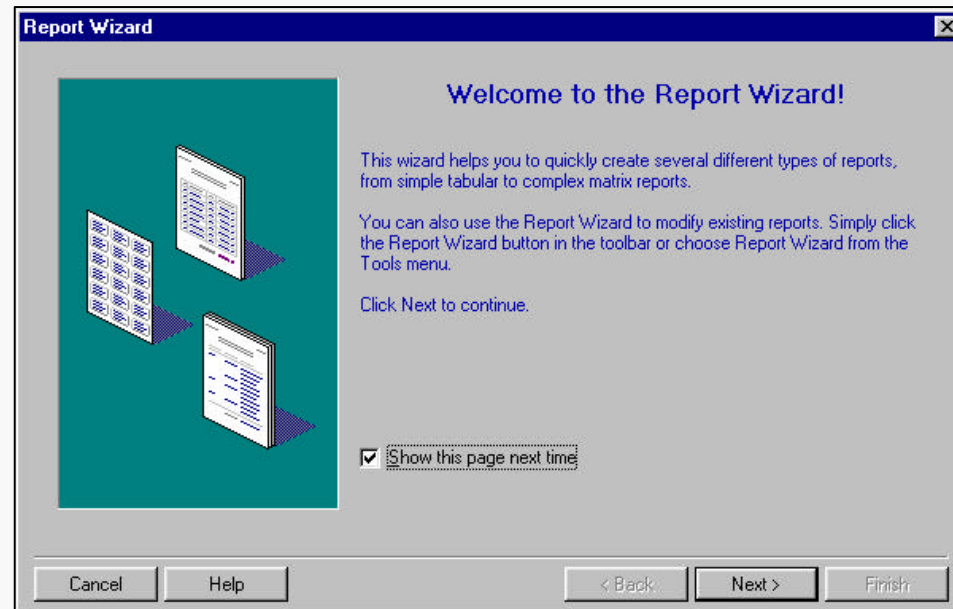
HHANDLER

<input checked="" type="checkbox"/>	LOCATION ZIP	A
<input type="checkbox"/>	MAIL STREET NO	A
<input type="checkbox"/>	MAIL STREET1	A
<input type="checkbox"/>	MAIL STREET2	A
<input type="checkbox"/>	MAIL CITY	A
<input type="checkbox"/>	MAIL STATE	A
<input type="checkbox"/>	MAIL ZIP	A
<input type="checkbox"/>	ACTIVITY LOCATION	A
<input type="checkbox"/>	USERID	A
<input type="checkbox"/>	LAST CHANGE	DD
<input type="checkbox"/>	NOTES	A
<input type="checkbox"/>	FK HBASICHANDLE	A
<input type="checkbox"/>	FK LU COUNTYOWNE	A
<input type="checkbox"/>	FK LU COUNTYCOUNT	A
<input type="checkbox"/>	ACKNOWLEDGE FLAG	A
<input type="checkbox"/>	ACKNOWLEDGE DATE	DD
<input type="checkbox"/>	SECOND ID	A
<input type="checkbox"/>	PREVIOUS ID	A
<input type="checkbox"/>	NON NOTIFIER	A
<input type="checkbox"/>	TSD DATE	DD
<input type="checkbox"/>	RIVER BASIN	A
<input type="checkbox"/>	OFF SITE RECEIPT	A
<input type="checkbox"/>	STATE DISTRICT	A
<input type="checkbox"/>	ACCESSIBILITY	A
<input type="checkbox"/>	LAND TYPE	A
<input checked="" type="checkbox"/>	LOCATION STREET NO	A
<input checked="" type="checkbox"/>	LOCATION STREET1	A
<input checked="" type="checkbox"/>	LOCATION STREET2	A
<input checked="" type="checkbox"/>	LOCATION CITY	A
<input type="checkbox"/>	LOCATION STATE	A

OK Cancel Help

# Report Wizard

- Brings reporting capability to non-technical users through step-by-step development of basic reporting needs.



# Demo: Building a simple report

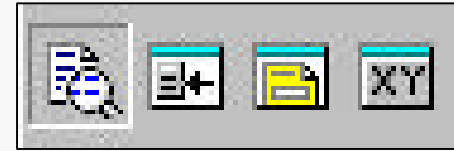
- *Objective:* Use Oracle Query Builder and Reports to build a simple report that retrieves handlers and their related location information.
- *Tables Needed:* HBASIC, HHANDLER
- *Data Columns Desired:* Region, State, Handler Name, Handler ID, Location Street Number, Location Street, Location City, Location Zip Code.
- *Results:* we'll see...



# The Report Editor

- Oracle Reports offers tools for enhancing a report after it has been developed, including:
  - previewing the report;
  - editing the SQL query;
  - changing the field appearances and contents; and,
  - moving elements around the layout.

# Report Editor Tools



- The *Live Previewer* runs the report and delivers sample formatted output.
- The *Data Model* represents the SQL query and its structure.
- The *Layout Editor* shows the contents of the report and the layout as it will be displayed.
- The *Parameter Form* allows the user to build an interface for client-server reports or for testing.  
(Used only if developer includes parameters in the report.)

# Live Previewer

**Report Builder for Windows 95 / NT - [Untitled: Report Editor - Live Previewer]**

File Edit View Insert Format Arrange Program Tools Window Help

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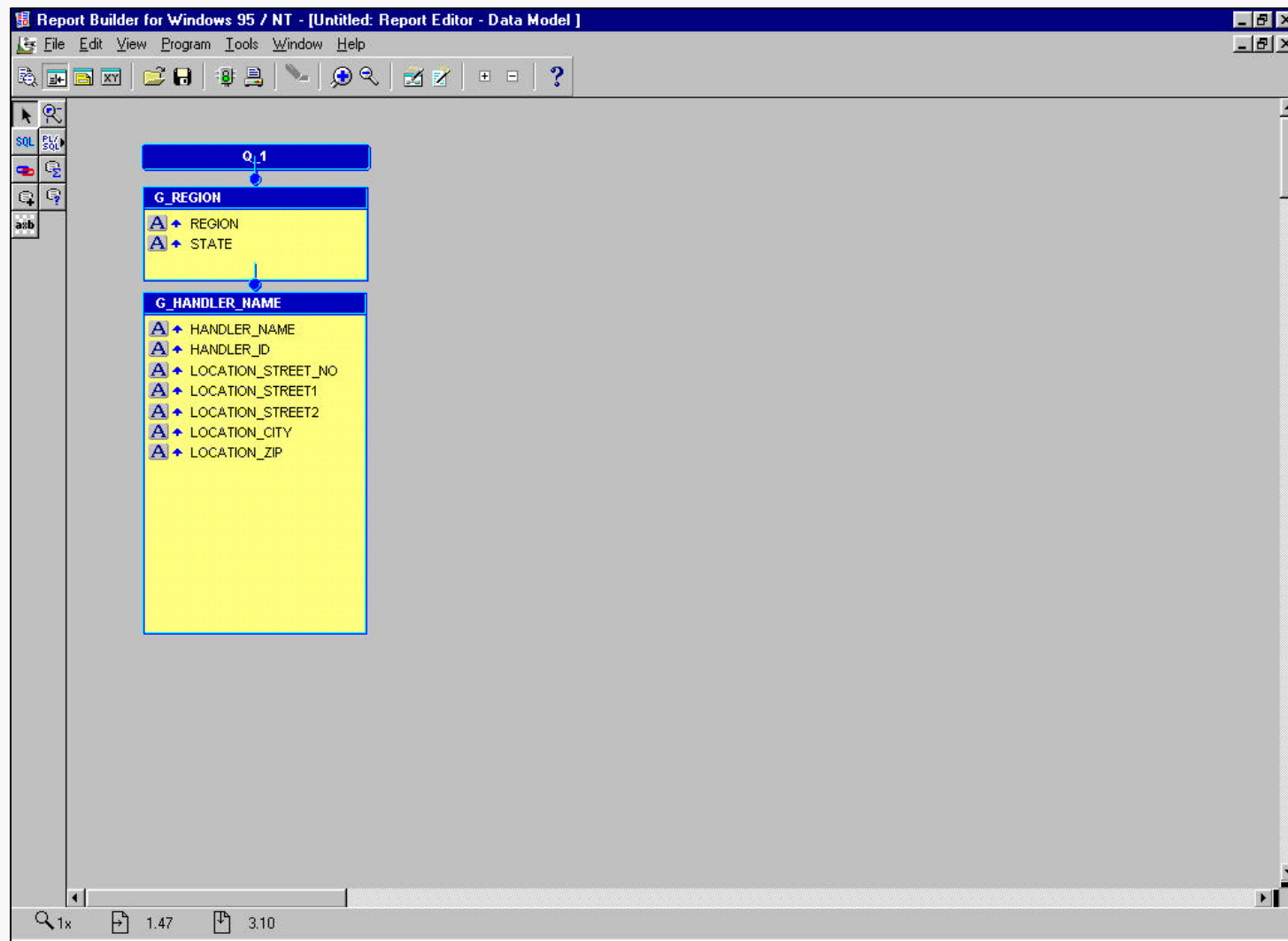
**Facility Report**

Report run on: July 31, 2000 10:51 AM

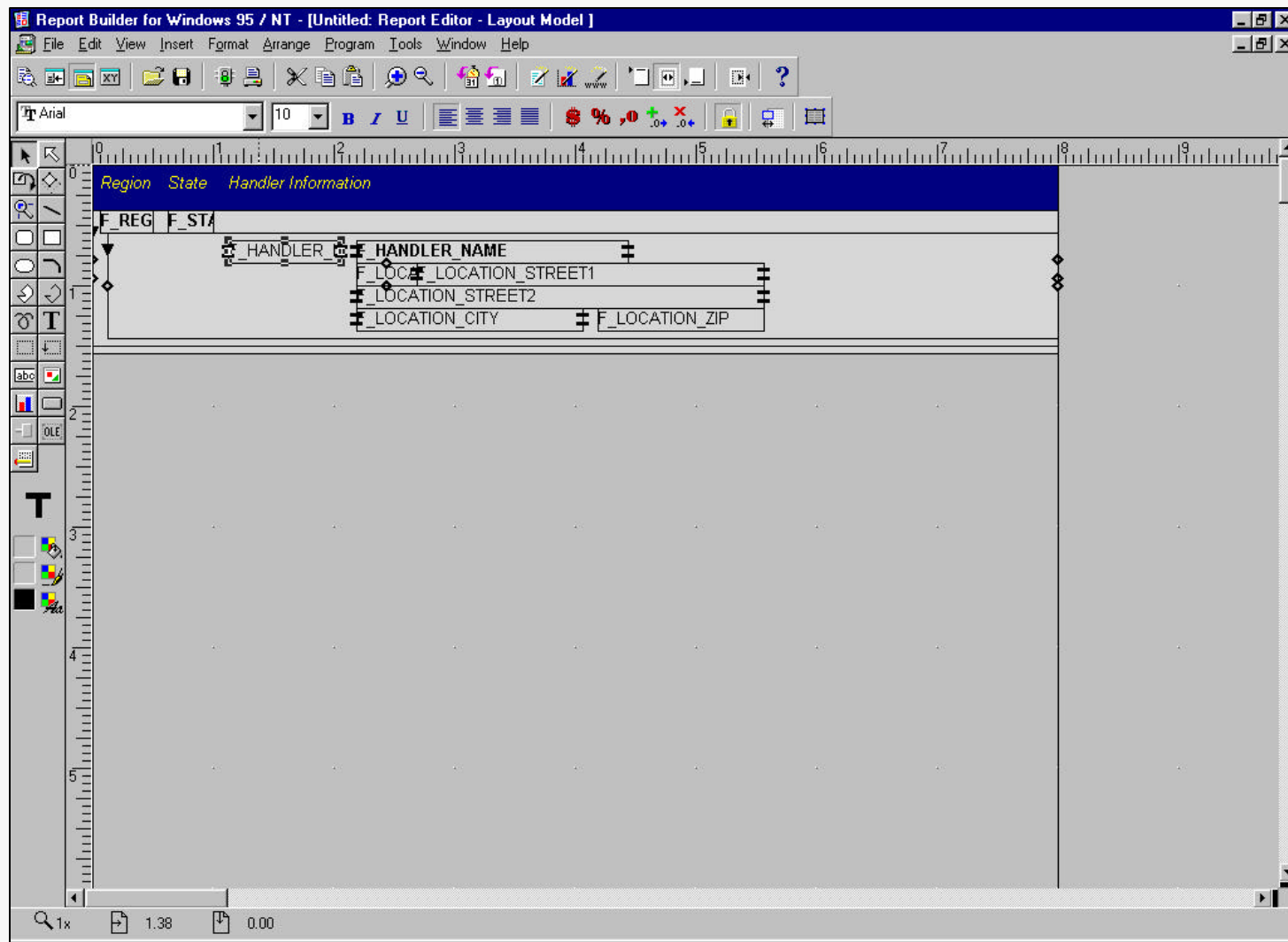
Region	State	Handler Name	Handler Id	Location Street No	Location Street1	Location Street2	Location City	Location Zip
04	AL	115ACS HALL	ALD983191933	515	WESTGATE		DOTHAN	36301
		ANG STATION			PARKWAY			
		18TH STREET	ALN960618001	1730	WILMER		ANNISTON	36202
		LAUNDRO-CENTER			AVENUE			
		2-K STEEL PRODUCTS INC	ALR000010298	65	MURRAY CIRCLE		ASHVILLE	35953
		232CCS MANGS ALA AIR NATIONAL GUARD	ALD983182650	3200	HAYNEVILLE ROAD		MONTGOMERY	36108
		280CCS ABSTON ANG STATION	ALD983191925	1000	AIR BASE BLVD		MONTGOMERY	361083123
		3 NOTCH AUTO SERVICE	ALR000001156	6365	HIGHWAY 90 WEST		MOBILE	36609
		3 STAR MANUFACTURING CO., INC.	ALN930825002		VAUGHN RD		LYNN	35575
		3M CO	ALD021259205	3070	LEEMAN FERRY ROAD SW		HUNTSVILLE	35801
		3M COMPANY	ALD004023164		STATE DOCKS ROAD		DECATUR	35609
		3M GIIN	ALD004019691	6675	US HWY 43		GUIN	35563

1x 3.63 4.69

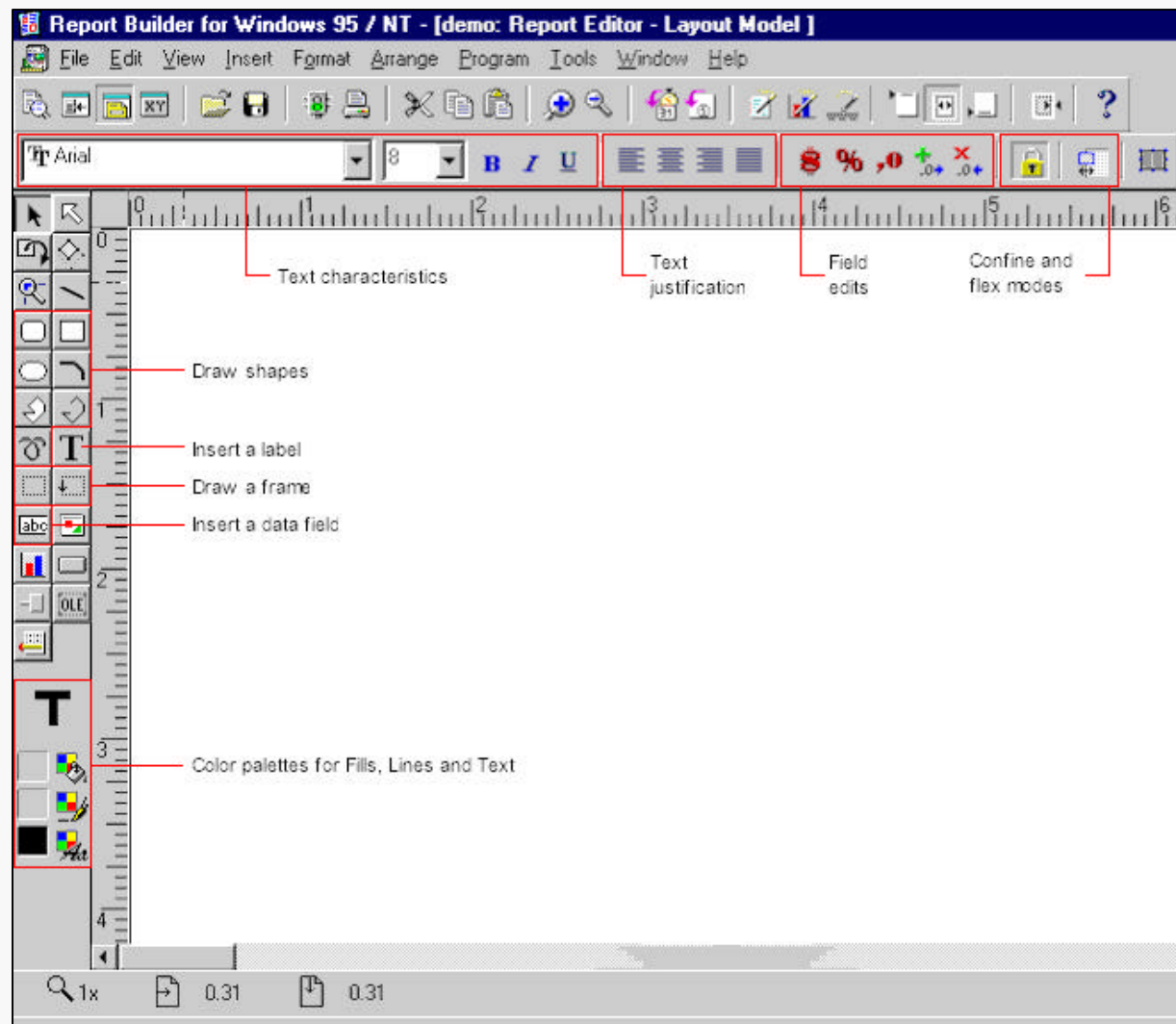
# Data Model



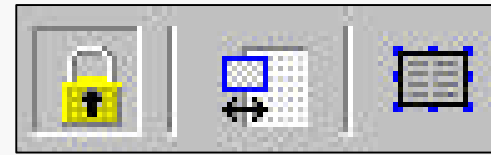
# Layout Editor



# Layout Tools, Part 1



## Layout Tools, Part 2



- Confine mode prevents a developer from moving a report element outside of its frame. By turning confine mode off, you can move an element to anyplace on the report.
- Flex mode allows for the resizing of a report element. When flex is on, you can resize an element and other elements are adjusted accordingly.
- Parent frames enclose a field(s) or another frame(s).

# Demo: Using the Report Editor

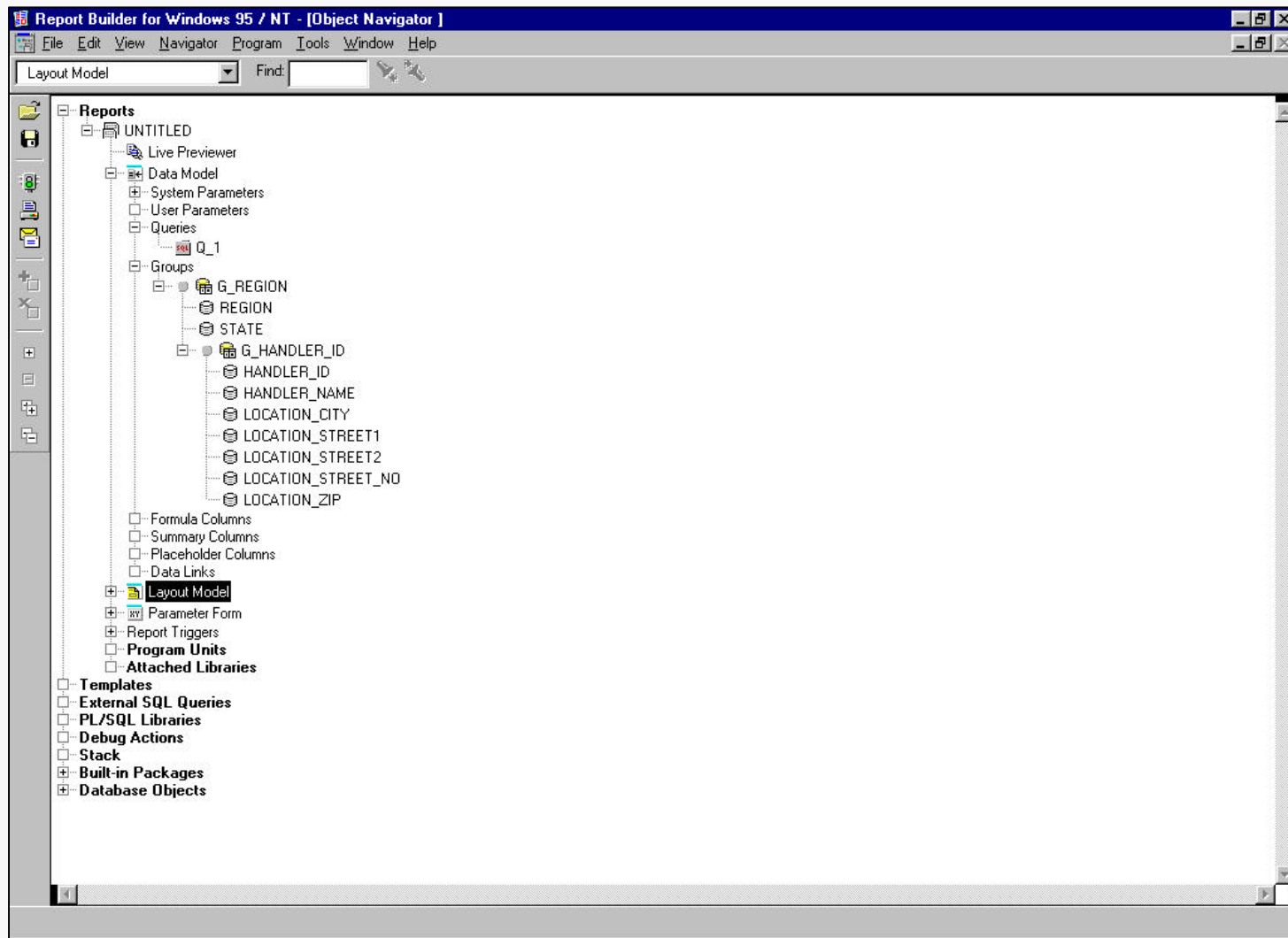
- *Objectives:*
  - Use the Live Previewer to change data text attributes.
  - Use the Layout Model to make the report easier to read, showing the Confine and Flex modes and the Parent Frame button.
  - Use the Data Model to sort by ID rather than Handler Name.



# The Object Navigator

- With the Object Navigator a user can expand and access all of the components of a report.
- The Report Editor tools are available from the Object Navigator.
- Advanced users can have access to PL/SQL libraries or other features.

# The Object Navigator



# Where can I get a copy of this exercise?

- The Design Team web site has a similar exercise already posted under *Reporting in RCRAInfo* at: <http://www.epa.gov/oswfiles/rcrainfo>
- This exercise will be posted after training.



# End of Presentation

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